

TECHNICAL MEMORANDUM

DATE: November 25, 2025 Project No.:1067-80-24-03
SENT VIA: EMAIL

TO: Spadra Basin Groundwater Sustainability Agency

FROM: Veva Weamer, Principal Scientist I

REVIEWED BY: Andy Malone, Principal Geologist II
Carolina Sanchez, Senior Engineer II

SUBJECT: Description of Unadjudicated Fringe Areas in the San Gabriel Valley Basin (No. 4-013) to Address DWR-Identified Deficiency in the Spadra Basin Groundwater Sustainability Plan

1.0 BACKGROUND AND OBJECTIVES

The Spadra Basin is a small subbasin of the San Gabriel Valley Basin (Basin No. 4-013) defined by the State of California Department of Water Resources [DWR] in *Bulletin 118 California's Groundwater Update 2003* [DWR, 2016]. The San Gabriel Valley Basin is designated as a “very low priority” basin under the Sustainable Groundwater Management Act¹ (SGMA). Because of this designation, SGMA does not require the preparation of a Groundwater Sustainability Plan (GSP). However, the legislation “encourages and authorizes” basins designated as very low priority to be managed under a GSP (California Water Code § 10720.7(b)).

The Walnut Valley Water District (WVWD) and the City of Pomona (Pomona) collectively formed the Spadra Basin Groundwater Sustainability Agency (GSA) in February 2017 through a Memorandum of Understanding (MOU) and elected to prepare and adopt a GSP for the Spadra Basin with the main objective of encouraging collaborative management of the basin between all pumpers and maximizing beneficial use of the basin in a sustainable fashion. The GSP for the Spadra Basin was adopted by the Spadra GSA on May 2, 2022, and submitted to DWR on July 26, 2022 (West Yost, 2022). On August 1, 2022, the DWR posted the GSP on the SGMA Portal website and initiated the public comment period for 75 days. There were no public comments submitted on the GSP during the review period.

On April 28, 2025, the DWR completed its review of the Spadra Basin GSP and issued a letter to the Spadra Basin GSA with a determination of “Incomplete” (DWR, 2025a). Attached to the letter was the *Statement of Findings Regarding the Determination of Incomplete Status of the San Gabriel Valley Basin GSP* (DWR, 2025b), which identified the following ‘Deficiency’ that prevents the plan from being approved:

¹ SGMA was enacted in 2014 via a three-bill legislative package consisting of Assembly Bill 1739 (Dickinson), Senate Bill 1168 (Pavley), and Senate Bill 1319 (Pavley), Part 2.74 of Division 6 of the California Water Code, beginning with § 10720.

*“**Deficiency:** The Plan does not demonstrate that areas within the San Gabriel Valley Basin that are not covered by an adjudication and are outside the area covered by the Plan (i.e., the area locally referred to as the “Spadra Basin”) are being effectively managed and that undesirable results are being avoided throughout the entire San Gabriel Valley Basin. Specifically, the Plan must be amended to clearly explain how the GSP effectively covers the entire San Gabriel Valley Basin — as defined by the Department’s Bulletin 118 basin boundaries. If the GSA believes the areas not covered by the Plan and not covered by an adjudication (shown on Figure 1 of the attached staff report) to in fact be adjudicated, that should be substantiated in the GSP. Otherwise, the GSA should provide an explanation for how any non-adjudicated areas, outside the “Spadra Basin,” within the larger San Gabriel Valley Basin will not affect the sustainability (and will avoid undesirable results) for the San Gabriel Valley Basin as a whole.”*

The remainder of this section describes the background on the San Gabriel Valley Basin No. 4-013 and the Plan Area for the Spadra Basin GSP, and the organization of this technical memorandum (TM) to address the Deficiency.

1.1 San Gabriel Valley Basin and Plan Area

The DWR designated the San Gabriel Valley Basin as a very low-priority basin mainly because groundwater pumping rights across most of the basin are adjudicated. There are four subbasins within the San Gabriel Valley Basin (No. 4-013): Six Basins, Spadra Basin, Puente Basin, and Main San Gabriel Basin (Main Basin). The Spadra Basin is not adjudicated, while the remaining subbasins— Six Basins, Puente Basin, and Main Basin— are adjudicated.

The Plan Area for the Spadra Basin GSP is described in the GSP as the “*Spadra Basin GSA boundary*” which is “*the unadjudicated portion of the San Gabriel Valley Basin (No. 4-013) as defined in the DWR’s Bulletin 118 California’s Groundwater Update 2003 exclusive of the adjudicated boundaries of the Six Basins, Main San Gabriel Basin, and Puente Basin.*” Exhibit 1 illustrates the boundary of the Spadra Basin GSP boundary in relation to the broader San Gabriel Valley Basin (No. 4-013), as well as the adjudicated boundaries of the Six Basins, Main Basin, and Puente Basin.

1.2 Organization of TM

This TM has been prepared to address the Deficiency identified in the Spadra Basin GSP. The TM describes the technical justification as to why areas along the fringes of the San Gabriel Valley Basin, not covered by an adjudication— hereafter referred to as ‘fringe areas’— will not compromise sustainability of the entire San Gabriel Valley Basin. The justification demonstrates that the fringe areas do not need to be included in the Plan Area for the Spadra Basin GSP. The TM includes the following sections:

1. **Background and Objectives.** Provides background on the Spadra GSP, the Deficiency, and the purpose of this TM.
2. **Location of Fringe Areas.** Identifies and maps the fringe areas within the San Gabriel Valley Basin.
3. **Method to Address Deficiency.** Outlines the approach used to compile information and evaluate the fringe areas to address the Deficiency.
4. **Justification for Exclusion of Fringe Areas from the Spadra GSP Coverage.** Provides the technical reasoning for why the fringe areas do not need to be included in the Spadra GSP and will not impact the sustainability of the San Gabriel Valley Basin as a whole.

5. **References.** Lists the references cited in this TM, including those consulted to support the technical rationale for excluding the fringe areas from the Spadra GSP.

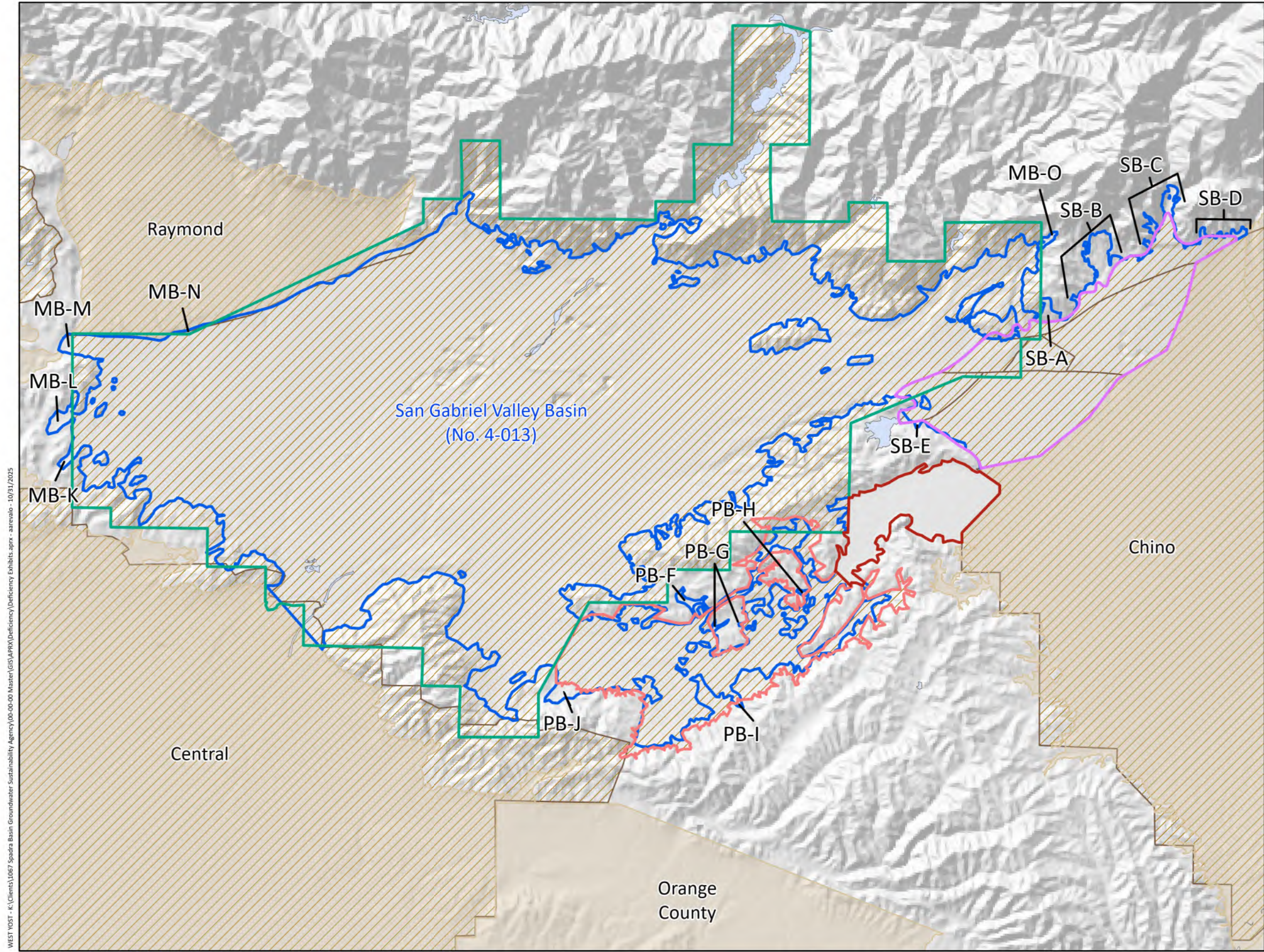
2.0 LOCATION OF FRINGE AREAS

Exhibit 1 labels and identifies the fringe areas located outside the adjudicated basin boundaries in relation to the entire San Gabriel Valley Basin No. 4-013 and the Spadra Basin GSP boundary. These fringe areas are labeled using a naming scheme related to the adjudicated basin they are adjacent to— “SB” for Six Basins, “PB” for Puente Basin, and “MB” for Main Basin. In total, there are 15 fringe areas identified and addressed in this TM. All fringe areas are not near the Spadra Basin boundary and are located along the outermost edges of the adjudicated basins. Exhibits 2, 3, and 4 are zoomed in maps of the fringe areas adjacent to the Six Basins, Puente Basin, and Main Basin, respectively.

Exhibit 2 shows five fringe areas adjacent to the adjudicated Six Basins (SB-A through SB-E). The Six Basins are a group of six interconnected groundwater basins located in the northeastern portion of the San Gabriel Valley Basin. The Six Basins does not share a boundary with the Spadra Basin and is separated from the Spadra Basin by the San Jose Fault and a small portion of the Chino Basin. The Six Basins was adjudicated in 1998 under the Six Basins Judgment which established a Physical Solution for its management (Six Basins Judgment, 1998). The Six Basins Watermaster oversees the physical solution in the Six Basins Judgment. Groundwater in the Six Basins is currently pumped by six parties named in the Judgment (West Yost, 2025).

Exhibit 3 shows five fringe areas adjacent to the adjudicated Puente Basin (PB-F through J). The Puente Basin is a small groundwater basin located in the southern portion of the San Gabriel Valley Basin. The Puente Basin is west of Spadra Basin and shares its eastern boundary. The Puente Basin was adjudicated in 1981 under the Puente Basin Judgment which established a Physical Solution for its management (Puente Basin Judgment, 1981). Oversight of the basin is provided by the Puente Basin Watermaster, who administers the Judgment and ensures compliance with its provisions. Groundwater in the Puente Basin is currently pumped by four primary parties named in the Judgment (Puente Basin Watermaster, 2025).

Exhibit 4 shows five fringe areas adjacent to the adjudicated Main Basin (MB-K through MB-O). The Main Basin occupies the majority of the San Gabriel Valley Basin. Although the Main Basin and the Spadra Basin are not hydrologically connected, the Main Basin shares its adjudicated boundary with a portion of the western Spadra Basin boundary. The Main Basin was adjudicated in 1973 through the Main San Gabriel Basin Judgment which describes the physical solution for the management of water in the basin and adjudicates both groundwater and surface water rights. Since the Judgment was originally entered, there have been subsequent amendments to extend and clarify Watermaster's role (Main San Gabriel Basin Judgment, 1973, 2012). Groundwater in the Main Basin is currently pumped by about 45 parties named in the Judgment (Main San Gabriel Basin Watermaster, 2024).



- San Gabriel Valley Basin No. 4-013
- Spadra Basin
- Six Basins Adjudicated Boundary
- Puente Basin Adjudicated Boundary
- Main San Gabriel Basin Adjudicated Boundary
- Adjudicated Areas
- Other Groundwater Basins

Fringe Areas – Not symbolized. They are the areas along the edge of the San Gabriel Valley Basin and are the gaps between the San Gabriel Valley Basin and the adjudicated boundaries of the Six Basins, Puente Basin, and Main San Gabriel Basin. The Fringe Areas are labeled on the map using a naming scheme related to the adjudicated basin they are adjacent to, i.e. “SB” for Six Basins, “PB” for Puente Basin, and “MB” for Main San Gabriel Basin.”



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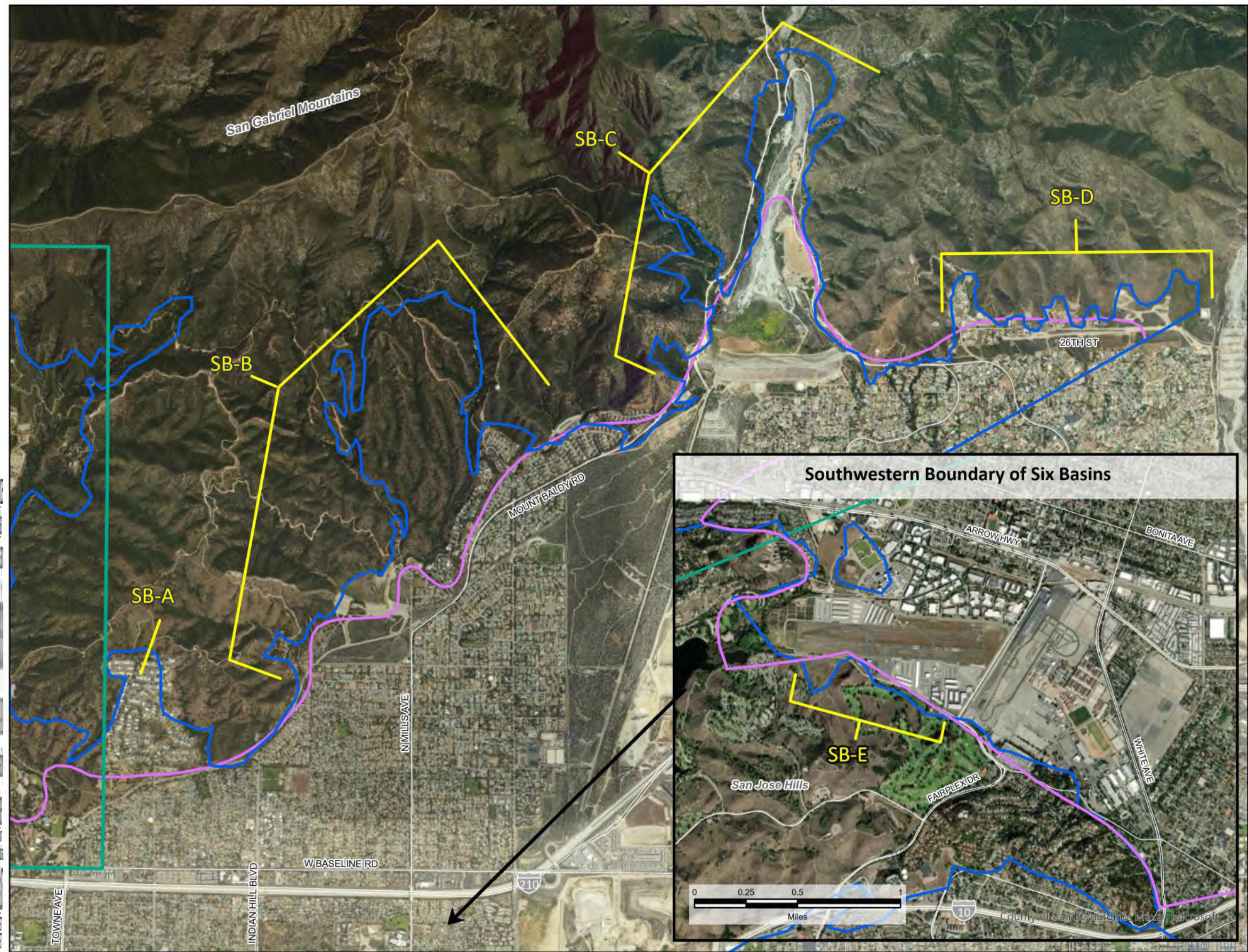


Prepared for:

Spadra Basin Groundwater Sustainability Agency
Groundwater Sustainability Plan
Technical Memorandum 2025

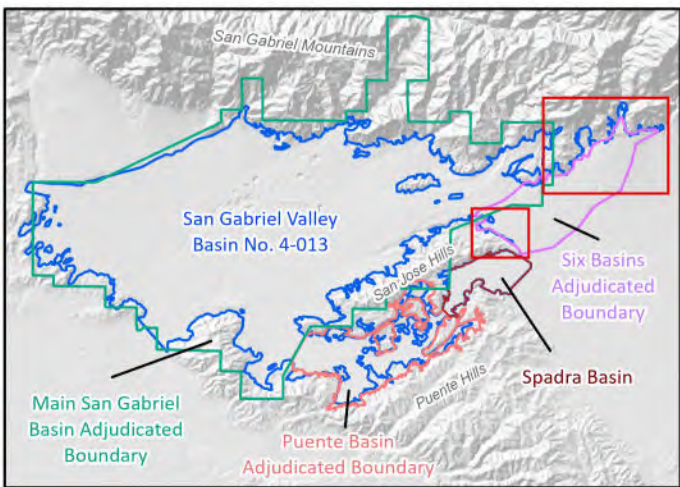


**San Gabriel Valley Basin (DWR No. 4-013),
Adjudicated Basins, and Fringe Areas**

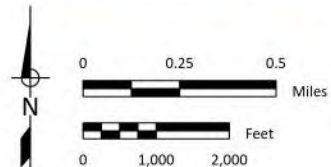


Fringe Areas Adjacent to the Six Basins – Not symbolized. They are labeled in yellow on the map using a naming scheme related to the adjudicated basin they are adjacent to, i.e. "SB" for Six Basins. These are the areas along the edge of the San Gabriel Valley Basin and are the gaps between the San Gabriel Valley Basin and the adjudicated boundary of the Six Basins.

- San Gabriel Valley Basin No. 4-013
- Six Basins Adjudicated Boundary
- Spadra Basin
- Main San Gabriel Basin Adjudicated Boundary



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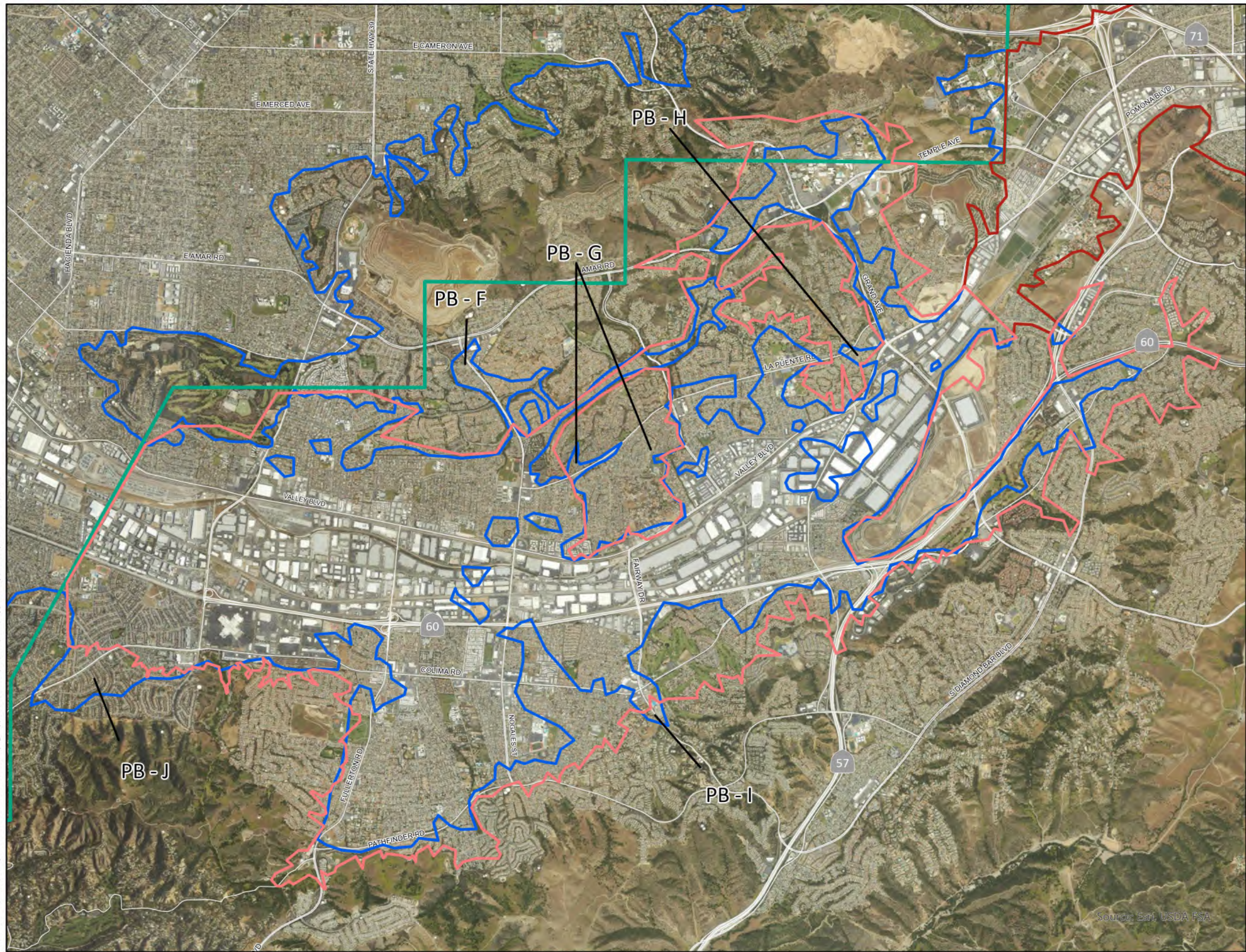
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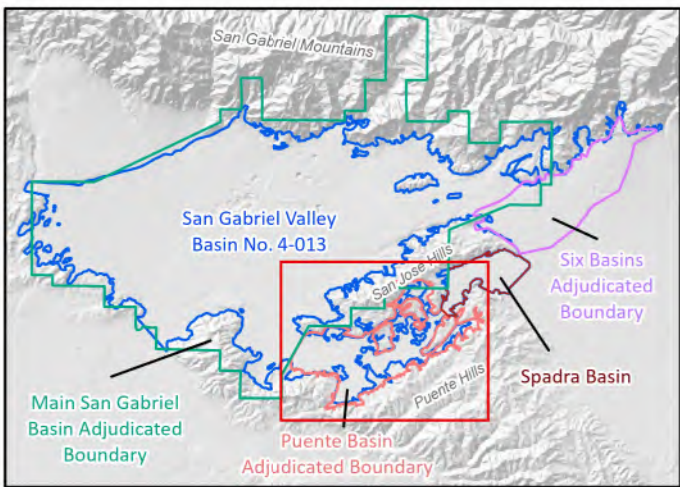
**Fringe Areas Adjacent to Six Basins
Adjudicated Boundary**

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Fringe Areas Adjacent to Puente Basin Adjudicated Boundary
– Not symbolized. They are labeled in black on the map using a naming scheme related to the adjudicated basin they are adjacent to, i.e. “PB” for Puente Basin. These are the areas along the edge of the San Gabriel Valley Basin and are the gaps between the San Gabriel Valley Basin and the adjudicated boundary of the Puente Basin.

-  San Gabriel Valley Basin No. 4-013
-  Puente Basin Adjudicated Boundary
-  Spadra Basin
-  Main San Gabriel Basin Adjudicated Boundary



Prepared by:



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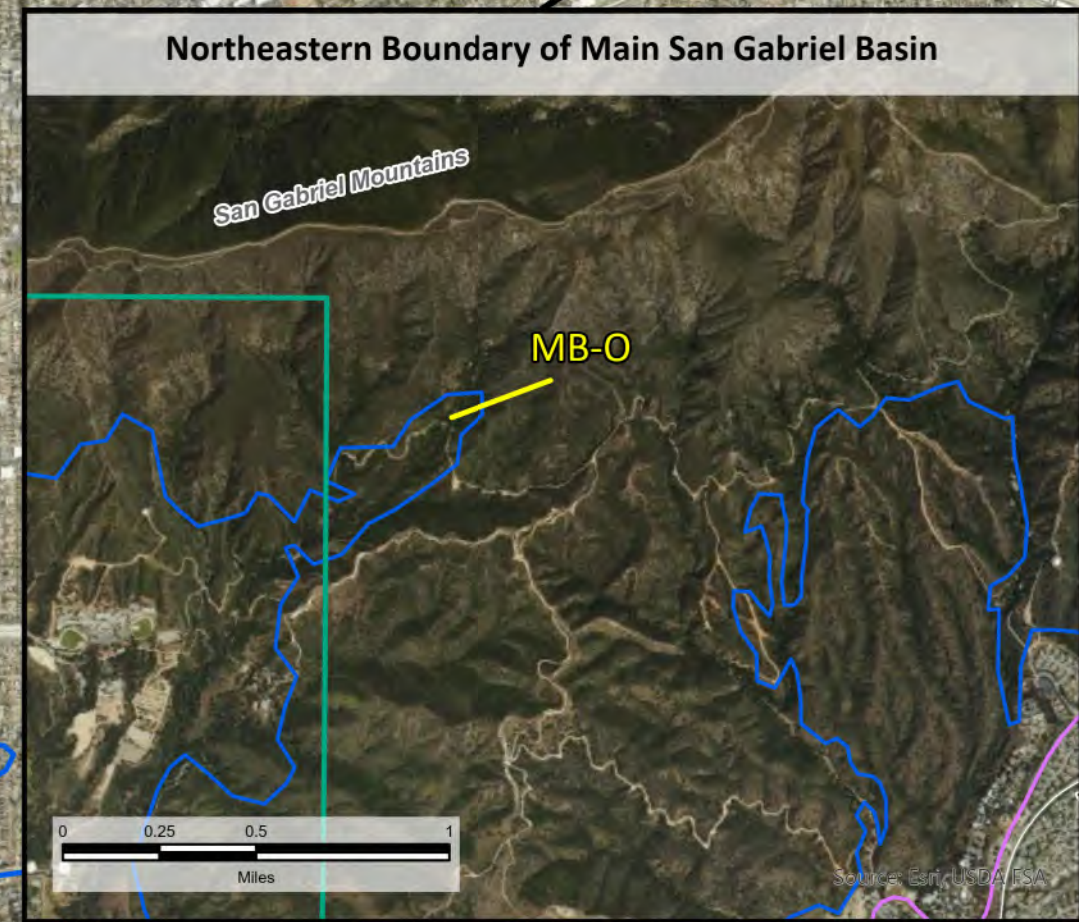
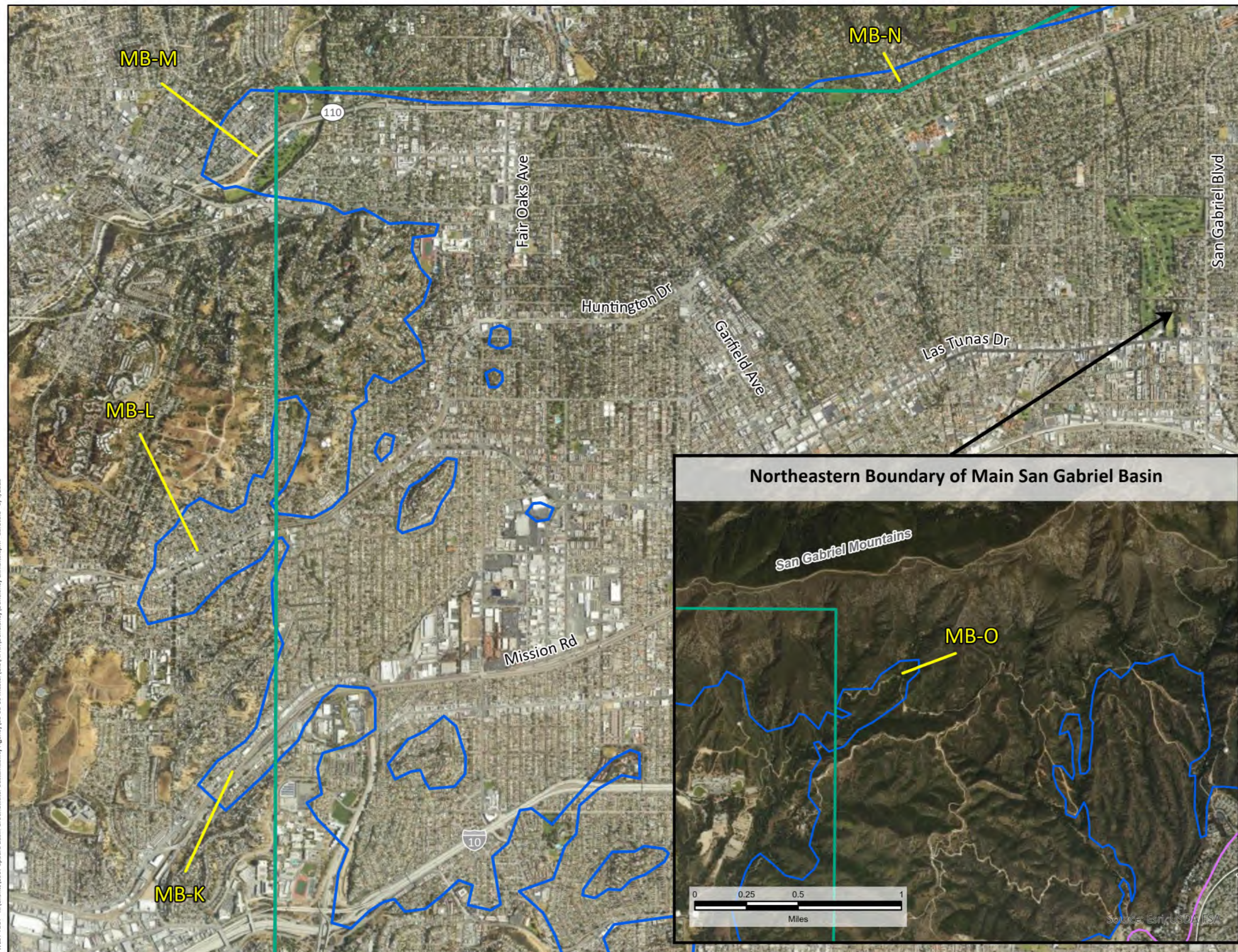
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Groundwater Sustainability Plan
Technical Memorandum 2025



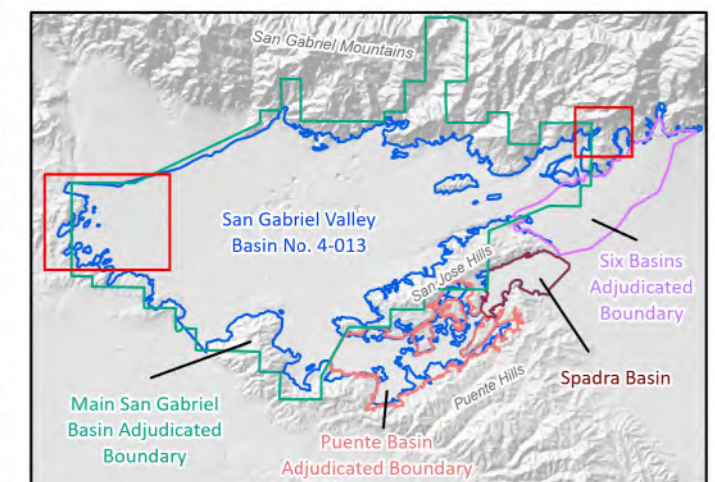
Fringe Areas Adjacent to Puente Basin Adjudicated Boundary

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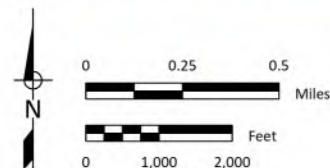


Fringe Areas Adjacent to the Main San Gabriel Basin – Not symbolized. They are labeled in yellow on the map using a naming scheme related to the adjudicated basin they are adjacent to, i.e. “MB” for Main San Gabriel Basin. These are the areas along the edge of the San Gabriel Valley Basin and are the gaps between the San Gabriel Valley Basin and the adjudicated boundary of the Main San Gabriel Basins.

-  San Gabriel Valley Basin No. 4-013
-  Six Basins Adjudicated Boundary
-  Spadra Basin
-  Main San Gabriel Basin Adjudicated Boundary



Prepared by:



Spadra Basin Groundwater Sustainability Agency
Groundwater Sustainability Plan
Technical Memorandum 2025

Prepared for:



Fringe Areas Adjacent to Main San Gabriel Basin
Adjudicated Boundary

Exhibit 4

3.0 METHOD TO ADDRESS DEFICIENCY

Following receipt of the Statement of Findings identifying this Deficiency in the Spadra GSP, the Spadra GSA coordinated with the DWR and met with DWR staff on July 15, 2025 to discuss the Deficiency and a proposed approach for resolution. In preparation for the meeting, the GSA conducted preliminary research to identify potential factors that they thought could support the position that the unadjudicated fringe areas would not impact the sustainability of the San Gabriel Valley Basin. These proposed factors were shared with DWR in advance of the meeting to facilitate discussion and evaluate whether the proposed rationale and approach were appropriate. These factors included:

- **Groundwater pumping:** There is no groundwater pumping occurring in these areas.
- **Hydrogeologic conditions:** The areas are located within bedrock hills and/or regions where the aquifer is either unsaturated or very shallow.
- **Hydraulic connectivity:** The areas are considered hydrologically connected to an adjacent adjudicated basin.
- **Watermaster oversight:** These areas are analyzed and managed by the Watermaster responsible for the adjacent adjudicated basin, who ensures that undesirable results are avoided.

During the meeting, it was clarified that the fringe areas in question are neither covered by the Spadra GSP nor subject to an adjudication. Therefore, the GSA must provide technical justification demonstrating that these fringe areas will not affect the sustainability (and will avoid undesirable results) for the San Gabriel Valley Basin as a whole. DWR confirmed that the proposed factors were appropriate and aligned with their expectations to address the Deficiency. One or more of these factors may serve as technical justification that the fringe areas do not affect the sustainability of the San Gabriel Valley Basin and exclusion from the Spadra GSP. During the meeting, the DWR identified the presence of water customers in some of the fringe areas and emphasized the need to identify the water purveyors serving those areas, as well as their affiliations with the Watermasters overseeing the Judgments of adjacent basins.

Following this discussion, the GSA coordinated with the Watermaster staff for the Six Basins, Main Basin, and Puente Basin to gather supporting information on each of the fringe areas adjacent to the corresponding adjudicated basin. This coordination focused on collecting data in alignment with DWR's feedback on the factors appropriate to address the Deficiency, for each of the fringe areas. Specifically, the GSA posed the following general questions for each adjacent fringe area to Watermaster to collect this information:

1. **Water Service:** Which agency provides water supply in the area? Are they a party to the Watermaster?
2. **Groundwater Pumping:** Is groundwater being pumped in these areas? If so, by whom?
3. **Hydrogeologic Conditions:** Are these areas located in bedrock hills or regions where the aquifer is unsaturated or very thin? Please include any relevant technical documentation (e.g., reports, maps).
4. **Hydraulic Connectivity:** Are these areas hydraulically connected to the adjudicated groundwater basin? Please include any relevant technical documentation (e.g., reports, maps).
5. **Watermaster Oversight:** Does the Watermaster monitor, model, or manage these fringe areas to prevent undesirable results? If so, how?

4.0 JUSTIFICATION FOR EXCLUSION OF FRINGE AREAS FROM THE SPADRA GSP COVERAGE

This section presents the technical rationale to demonstrate why the fringe areas do not need to be included in the Spadra Basin GSP and why their exclusion will not compromise the overall sustainability of the San Gabriel Valley Basin. The justification is structured to align with the key factors discussed with DWR and the specific questions posed to the Watermasters of the adjacent adjudicated basins described in Section 3.

Table 1 provides a structured summary of the technical rationale for each fringe area. The table organizes the following information for each fringe area: (1) the agency that provides water service, (2) the presence or absence of groundwater pumping, (3) the hydrogeologic properties of the aquifer and hydrologic connectivity to the adjacent adjudicated basin,² and (4) the extent of the Watermaster’s oversight and management to ensure undesirable results are avoided.

The main conclusions of Table 1 are:

- In the majority of the fringe areas where there is water service (10 out of 14), the supplying agency is a Watermaster party for the adjudicated basin and therefore participates in management and monitoring of the area as needed.
- In all (15) of the fringe areas there is no groundwater production.
- In most of the fringe areas (14 of the 15), the aquifer is predominantly composed of impermeable bedrock and/or thin aquifer units with limited storage and transmissivity. And the remaining fringe areas is within a fault boundary that restricts groundwater flow.
- While some fringe areas may exhibit hydraulic connectivity to the adjacent adjudicated basin, the aquifer systems in all of these areas (15) are considered hydraulically insignificant and do not justify inclusion in monitoring or modeling efforts by the Watermasters or others. Although some of these fringe areas partially overlap with the Watermaster model domains.

The technical rational summarized in Table 1 overall demonstrates the negligible potential for undesirable results within these fringe areas, especially when viewed in the broader context of the San Gabriel Valley Basin and supports the GSA’s rationale for excluding these fringe areas from the Spadra Basin GSP.

² Combines information compiled from the Watermaster’s responses to Questions 3 and 4

Table 1. Technical Justifications for Excluding Fringe Areas from the Spadra Basin GSP				
Fringe Area	Agency that Provides Water Service	Is there Groundwater Pumping	Hydrogeologic Properties and Basin Connectivity	Extent of Watermaster's Monitoring and Management
Adjacent to Six Basins				
SB-A	Golden State Water Company—a party to the Watermaster ^{(1) (2)}	no	◦These fringe areas include regions mostly outside the Six Basins’ northern hydrologic boundary, consisting of impermeable Basement Complex; while those regions within the hydrologic boundary contain thin aquifer units adjacent to consolidated non-water-bearing bedrock. Although these zones are hydraulically connected to the Six Basins, they possess minimal storage and transmissivity and are therefore not considered hydraulically significant. ^{(3) (4) (5) (6)} ◦ Air photos and DEMs reveal uplifted hills, indicating minimal or absent underlying aquifer ⁽⁷⁾	Watermaster does not conduct monitoring in this area, nor is it included in the groundwater model domain due to a saturated thicknesses less than 40 feet, or the presence of non-water-bearing bedrock. Monitoring and modeling are not warranted because this area is a hydraulically insignificant portion of the basin, and any potential undesirable results are considered negligible in the context of the overall San Gabriel Valley Basin. ^{(4) (8) (9)}
SB-B	Golden State Water Company—a party to the Watermaster ^{(1) (2)}	no		
SB-C	There are no water costumers in this area. ⁽¹⁾	no		
SB-D	San Antonio Water Company—a party to the Watermaster ^{(1) (2)}	no	◦ This fringe area lies outside the Six Basins' eastern hydrologic boundary and consists of impermeable Basement Complex. ^{(3) (4) (5)} ◦ Air photos and DEMs reveal uplifted hills, indicating minimal or absent underlying aquifer ⁽⁷⁾	This area is included within the Six Basins' groundwater model used by the Watermaster to evaluate groundwater conditions and support basin management. ^{(4) (8) (9)}
SB-E	In the eastern portion water is supplied by City of Pomona—a party to the Watermaster. In the western portion, water is supplied by Los Angeles County Parks and Recreation. ^{(1) (2)}	no	◦ This fringe area lies within the Six Basins' southeastern hydrologic boundary where the aquifer is notably thin and situated near consolidated, non-water-bearing bedrock (Puente Formation). ^{(3) (4) (5) (6)} ◦ Air photos and DEMs reveal uplifted hills, indicating minimal or absent underlying aquifer ⁽⁷⁾	
Adjacent to Puente Basin				
PB-F	City of West Covina Water Department ^{(10) (11)}	no	The fringe area is situated between hilly and mountainous regions characterized by consolidated bedrock formations. Although hydraulically connected to the Puente Basin, the aquifer system in the fringe areas and adjacent Puente Basin have very minimal storage and transmissivity due to the limited thickness and no saturated water-bearing sediments. ^{(7) (10) (12)}	Watermaster does not conduct monitoring and modeling in these areas because these are hydraulically insignificant portions of the basin, because the aquifer is thin and unsaturated. Hence any potential undesirable results are considered negligible in the context of the overall San Gabriel Valley Basin. ^{(10) (13)}
PB-G	City of West Covina Water Department ^{(10) (11)}	no		
PB-H	Walnut Valley Water District—a party to the Watermaster ^{(10) (11)}	no		
PB-I	Walnut Valley Water District—a party to the Watermaster ^{(10) (11)}	no		
PB-J	Rowland Water District—a party to the Watermaster ^{(10) (11)}	no	The fringe area consist of uplifted hills as characterized by the DEM, indicating minimal or absent underlying aquifer, and adjacent areas of the Puente Basin where the aquifer is thin, impermeable and/or unsaturated. ⁽⁷⁾	
Adjacent to Main Basin				
MB-K	City of Los Angeles ^{(14) (15)}	no	These fringe areas are situated between hilly and mountainous regions characterized by consolidated bedrock formations. Although hydraulically connected to the Main Basin, the aquifer system exhibits very minimal storage and transmissivity due to the limited thickness and limited saturated water-bearing sediments. Accordingly, this area is not a hydraulically significant portion of the basin. ^{(14) (16) (18)}	Watermaster does not conduct monitoring in this area, nor is it included in the groundwater model domain due to the model's relatively coarse grid resolution and the limited storage of the aquifer in this area. Monitoring and modeling are not warranted because this area is a hydraulically insignificant portion of the basin, and any potential undesirable results are considered negligible in the context of the overall San Gabriel Valley Basin. ^{(14) (16) (18)}
MB-L	City of Los Angeles ^{(14) (15)}	no		
MB-M	City of Los Angeles ^{(14) (15)}	no		
MB-N	California American Water - San Marino—a party to the Watermaster ^{(14) (15)}	no	The fringe area is within the fault zone for the Raymond Fault that separates the Main Basin from the Raymond Basin. This fault acts as a natural barrier that effectively blocks water from moving between the Raymond Basin and the Main Basin. A small portion of this fringe area is within the Raymond Basin Adjudicated boundary. ^{(14) (16) (17) (18) (19) (20)}	This area is included within the model boundary for the San Gabriel Basin Groundwater Flow Model used by the Watermaster for basin evaluation and management. ^{(14) (16) (17)}
MB-O	City of La Verne—a party to the Watermaster ^{(14) (15)}	no	This fringe area lies outside the San Gabriel Valley eastern hydrologic boundary. Air photos and DEMs reveal uplifted hills and mountain terrain suggesting minimal or absent underlying aquifer beneath. ^{(16) (21)}	Watermaster does not conduct monitoring in this area, nor is it included in the groundwater model domain due to the model's relatively coarse grid resolution and absence of aquifer sediments. Monitoring and modeling are not warranted because this area is a hydraulically insignificant portion of the basin, and any potential undesirable results are considered negligible in the context of the overall San Gabriel Valley Basin. ^{(14) (16) (18)}

Notes:

1. Six Basin Watermaster provided Exhibit A-1 (Attachment A to this TM) which added the water service areas, the Six Basins hydrologic boundary, and Model Domain to Exhibit 2 of this TM
2. The Six Basin Watermaster Annual Reports are online at www.6bwm.com - under Documents Page. Figure 3-2 in the Annual Report shows the water purveyor service areas for the entire Six Basins (West Yost, 2025).
3. The Six Basins hydrologic boundary differs from the adjudicated boundary. See Exhibit 2 modified by Six Basins Watermaster (Attachment A) showing both the Six Basins hydrologic and adjudicated boundaries for these fringe areas.
4. Development and Use of a Numerical Groundwater-Flow Model of the Six Basins Report ([Six Basins Model Report], Wildermuth Environmental, 2015), online at www.6bwm.com - under Strategic Plan Page.
5. Six Basins Model Report, Section 2.3.2 Basin Boundaries, Figure 2-1 Geologic Map.
6. Six Basins Model Report, Section 2.2.2 Water-Bearing Sediments, Figure 2-1 Geologic Map.
7. See Exhibits 1, 2, and 3 of this TM.
8. Six Basins Model Report, Section 5.1 Model Domain and Grid, Figure 5-1 Model Domain and Model Grid
9. The Six Basins hydrologic boundary differs from the model boundary. See Exhibit A-1 showing the Six Basins hydrologic and model boundaries near these fringe areas.
10. Technical Memorandum 1 (TM-1) Conceptual Understanding of the Puente Basin ([Puente Basin TM-1], West Yost, 2023) , online at <https://puentebasin.com> - under GMP Development Page - Documents.
11. Puente Basin TM-1, Figure 2-2 Water Purveyors and Jurisdictional Boundaries in the Puente Basin Area.
12. Puente Basin TM-1, Figures 3-4 Geologic Map, 3-10 Initial Estimates of Horizontal Hydraulic Conductivity, 3-14b Groundwater in Storage Spring 2022.
13. Puente Basin TM-1, Section 2.4 Groundwater Monitoring.
14. Information from email correspondence from Main Basin Watermaster staff and their consultants (K. Gardner, personal communication, October 21, 2025)
15. Confirm water service agency in polygon boundary shapefile of public water agencies available on California Open Data Portal <https://data.ca.gov/dataset/i03-waterdistricts>
16. Information confirmed during online meeting with Main Basin Watermaster staff and their consultants on October 30, 2025.
17. Information from email correspondence from Main Basin Watermaster consultants (J. Savron, personal communication, October 31, 2025).
18. Raymond Basin Conjunctive Use Management Plan for the Foothill Communities Water Supply Reliability Study – 50% Model Update and Recalibration (Geoscience, 2013).
19. San Gabriel Valley Groundwater Basin Salt and Nutrient Management Plan Report ([San Gabriel Valley SNMP Report] Stetson Engineers, 2016), online at watermaster.org - Projects Page - Salt and Nutrient Management Plan Section - Download the Full Salt and Nutrient Management Plan PDF
20. San Gabriel Valley SNMP Report, Plates II.18a, II.18b, II.18e
21. See Exhibit 4 of this TM.

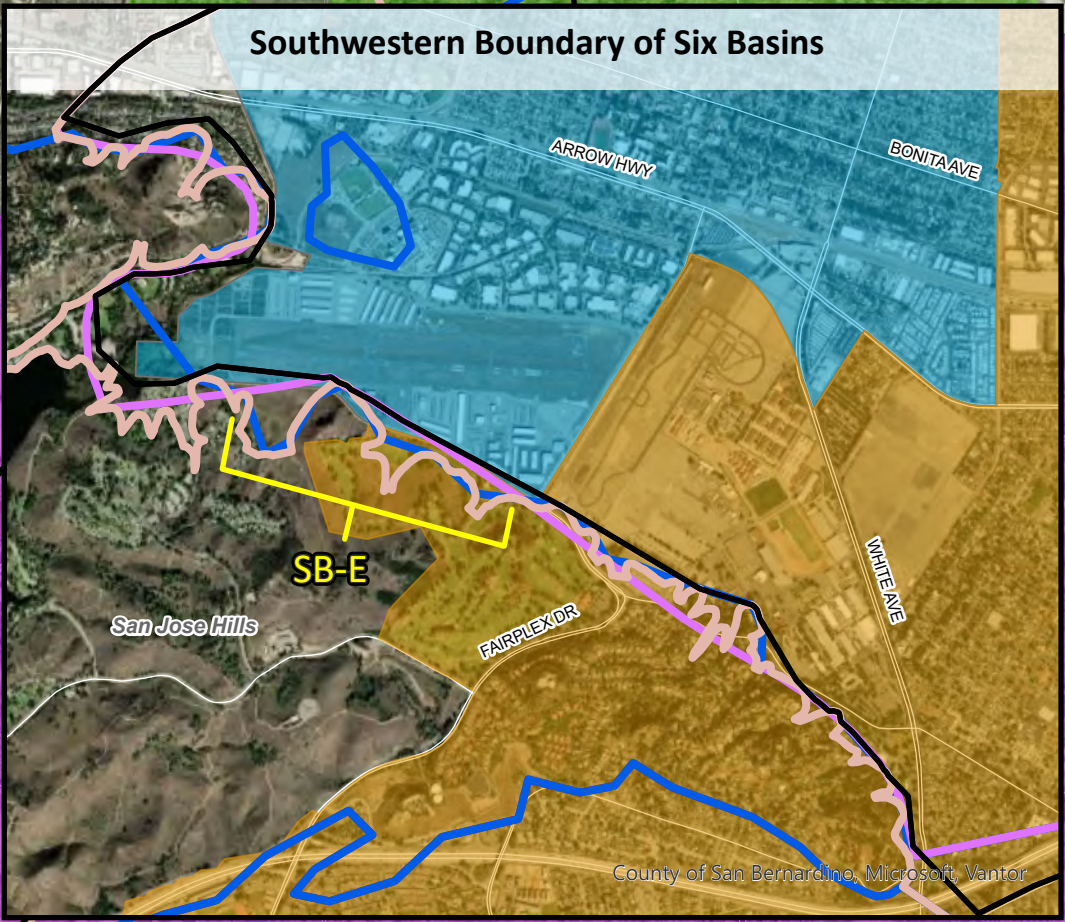
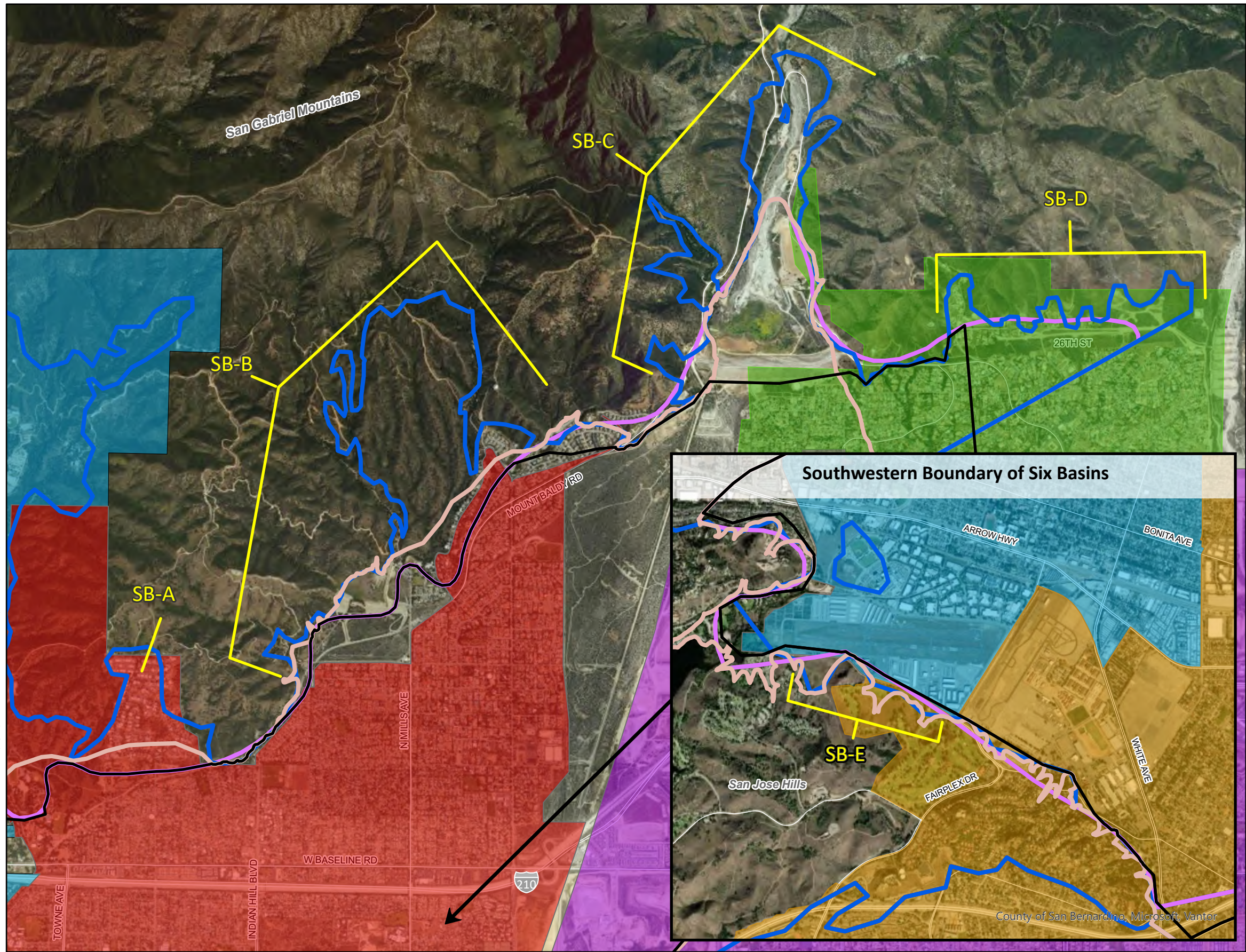
5.0 REFERENCES

- Gardner, Kelly. Email *FW: Spadra Basin GSP - San Gabriel Valley (SGV) Basin (No.4-013) - Support to Address Deficiency - Info for Main San Gabriel Basin*. Received by Veva Weamer and Sherry Shaw on October 21, 2025.
- GeoScience. 2013. *Raymond Basin Conjunctive Use Management Plan for the Foothill Communities Water Supply Reliability Study – 50% Model Update and Recalibration*. Prepared for US Army Corps of Engineers under contract to Tetra Tech, Inc. July 22, 2013.
- Main San Gabriel Basin Judgment. 1973. *Upper San Gabriel Valley Municipal Water District vs. City of Alhambra et al., Superior Court of California for the County of Los Angeles (Case No. 924128)*.
- Main San Gabriel Basin Judgment. 2012 Amended Judgment. *Upper San Gabriel Valley Municipal Water District vs. City of Alhambra et al., Superior Court of California for the County of Los Angeles (Case No. 924128)*. June 21, 2012. Version includes prior Amendments and updated exhibits through June 21, 2012).
- Main San Gabriel Basin Watermaster 2024. *Main San Gabriel Basin Watermaster 2023-2024 Annual Report*.
- Puente Basin Judgment. 1981. *Puente Basin Water Agency, a joint powers agency, et al. vs. The City of Industry, a municipal corporation, et al., Superior Court of California for the County of Los Angeles (Case No. C369220)*.
- Puente Basin Watermaster. 2025. *Thirty-Ninth Annual Report Puente Basin Watermaster Fiscal Year 2024-25*. September 23, 2025.
- Six Basins Judgment. 1998. *Southern California Water Company vs. City of La Verne et al., Superior Court of California for the County of Los Angeles (Case No. KCO29152)*.
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Attachment A

Exhibit 2 Modified by the Six Basins Watermaster to Compile Information on the Fringe Areas

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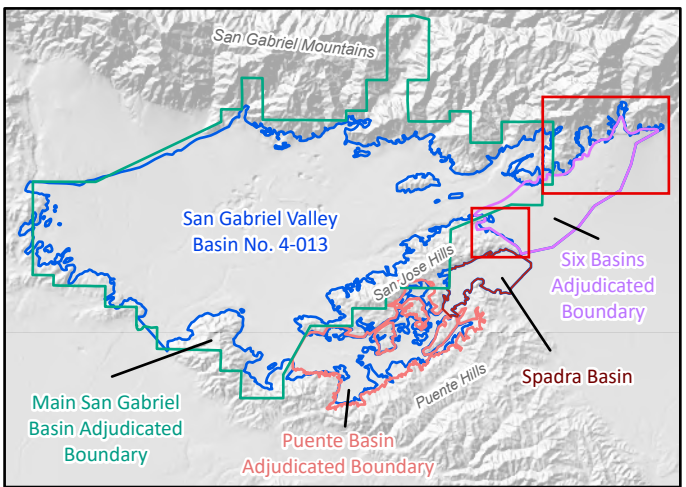
Fringe Areas Adjacent to the Six Basins – Not symbolized. They are labeled in yellow on the map using a naming scheme related to the adjudicated basin they are adjacent to, i.e. “SB” for Six Basins. These are the areas along the edge of the San Gabriel Valley Basin and are the gaps between the San Gabriel Valley Basin and the adjudicated boundary of the Six Basins.

Basin Boundaries

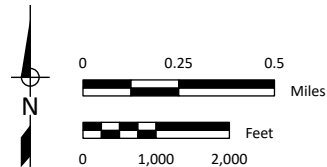
-  San Gabriel Valley Basin No. 4-013
-  Six Basins Adjudicated Boundary
-  Six Basins Hydrologic Boundary
-  Six Basins Model Domain

Water Service Areas

-  City of Upland
-  San Antonio Water Company
-  City of La Verne
-  City of Pomona
-  Golden State Water Company



Prepared by:



Spadra Basin Groundwater Sustainability Agency
Groundwater Sustainability Plan
Technical Memorandum 2025

Prepared for:



Fringe Areas Adjacent to Six Basins Adjudicated Boundary

Exhibit 2 (Modified by Six Basins Watermaster)